

# E1 SERIES SINGLE PHASE HYBRID INVERTER

SS-H4.5K1L-E1 ~ SS-H5.5K1L-E1/P

4.5kW~5.5kW / BAT48V / 230Vac



## Reliable performance

- Both the battery side and the load side have super strong load capacity, smooth voltage and current waveforms, and can drive inductive loads such as air conditioning, supporting unlimited load
- Independent intelligent load/generator interface, compatible with existing PV system access, can operate without batteries (PV+grid combined power supply).
- Even without a battery, it can be bypassed for output, important loads will not be powered off; The grid connected electricity sales function significantly improves energy utilization efficiency.

## Super Protection

- AICOT island protection, anti backflow (internal/external), PV reverse connection alarm, External CT reverse connection alarm and open circuit detection functions.

## Economic benefits

- PV input can exceed 2 times the rated power, supports simultaneous full battery charging and load operation, maximizing revenue.
- Supports grid connected, off grid, and grid connected switching modes, with adaptive frequency and the ability to set charging and discharging strategies based on time of use electricity prices to achieve economical energy use.

## Friendly Design

- Removable dust cover suitable for harsh environments; Support battery activation function.

## Parameters

MODEL	SS-H4.5K1L-E1	SS-H5.5K1L-E1	SS-H5.5K1L-E1P
Battery Voltage	48Vdc		
Battery Type	Lead-acid, lithium batteries, gel batteries, etc		
<b>Output</b>			
Rated Output Power	5000VA/4500W	6000VA/5500W	6000VA/5500W
Parallel Function	N/A	N/A	Yes, up to 10 units
Rated Output Voltage	230Vac ±4%		
Rated Output Frequency	50/60Hz ±0.3(Adaptive)		
Output Waveform	Pure sine wave		
Max Efficiency(Peak)	93.8%		
Rated Current	19.6A	23.9A	23.9A
Transfer Time	10ms(Typical value)		
<b>PV Input</b>			
Max PV Power	4500W	5500W	5500W
MPPT Voltage Range	90~500Vdc		
Max Input Voltage	500Vdc		
Max Charging Current	80A	100A	100A
<b>Mains/ Generator Input</b>			
Max Charging Current	60A		
AC Input Voltage Range (UPS mode)	170~280Vac,±2%		
Frequency Range	(47-55Hz) ±0.3 / (57-65Hz) ±0.3		
<b>Battery Input</b>			
Voltage Range	40~60Vdc		
Max Charging Current	100A		
Default Charging Current	30A		
<b>General Parameters</b>			
Dimension. W*D*H(mm)	330*125*470		
Installation Method	Wall-mounted		
Weight (kg)	12		
Communication Mode	RS485/Dry contact control, Optional WIFI/4G		
Protection function	Over/Under Voltage Protection, Over/Under Frequency Protection, AC Output Short Circuit Protection, AC Output Overload Protection, High/Low Temp Protection		
<b>Operating Environment</b>			
Operating Ambient Temperature	-25°C~60°C( > 45°C Derating )		
Storage Ambient Temperature	-20°C~60°C		
Humidity	5%~95% Non-condensation		
Altitude	4000m( > 2000m Derating)		
Installation Environment	For indoor use only		
<b>Certifications</b>			
Certification	CE, RoHS		
Certifications standard	IEC/EN 61000-6-1/3, EN 62920, IEC 62109-1, IEC 62109-2, IEC 62321		

Specifications are subject to change without advance notice.